MULTIEYE®-NET NVR MX
Network Video Recorder

The MULTIEYE®-NET MX NVR Network Video Recorder is recorder and storage server in one device and can be supplied with an internal storage capacity with up to 16TB. The MX NVR Recorder is designed for highly professional use and offers with RAID and dual power supplies with the highest degree of redundancy. As at all MULTIEYE® recorders, the MX NVR convinces through ease of use, functionality and efficiency. The MX NVR Network Video Recorder processes exclusively sources such as IP cameras, video encoders and servers, is able to record up to 32 IP video sources and offers thereby a complete video and alarm management. The recorder is able to process image data with up to 1,000 Mpixel/s and is therefore ideally suited for applications in conjunction with megapixel cameras. The user can choose between three different query modes for remote control depending on the available networks/bandwidth. The access to the recorder can thereby take place simultaneously by multiple users via PC, PDA or mobile phone. Therefore video networks can be realized, that are not only economic in its purchase, but also can effectively support your operational business.

In conjunction with the Video Center II (not included) complex video surveillance systems are implemented with more than 32 channels.

Key features:

- Scaleable network video recorders with up to 32 IP video inputs
- Modular software and hardware architecture
- Quadplex operation
- Support of JPEG, MJPEG, MPEG-4 and H.264 IP-Video Codecs
- Image processing rates up to 1000 Mpixel/s* through DirectStream technology
- Support of all common network cameras and videoservers from over 75 manufacturers (more than 350 camera models)
- Future security: supports IP cameras with up to 20 Mpixels
- Zooming during live operation and playback
- Motion detection for all IP video channels
- Storage capacity up to 16TB
- Multifaceted remote polling and configuration
- PDA ready (without additional software)
- Fast evaluation of events through MotionSearch and MotionTrack
- Interfaces to cash-points, IO servers, video sensors, control stations, access controls
- Highest operational security through RAID and dual power supply packs
- 2x1GBit network boards
- Supports the ImmerVision IMVI-1/3 panomorph lens with automatic live and playback equalization and virtual PTZ control

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SPECIFICATION:

General:

- Operating system MS Windows XP
- Processor Core 2 Quad
- Random access memory 2GB
- Storage capacity in TB max. 16
- RAID possibility 0,1,5,6,10,50
- Devices: DVD-RW
- Voltage supply: 2 x 500 Watt (redundant)(110-230VAC,50/60Hz)
- Consumption: 100-235 W
- Surrounding temperature: +10°C bis +35°C
- Certification as per ROHS, ISO 9001, CE
- Guarantee 2 years (extendable up to 3 years)

Video:

- IP-video channels: 8 (extendable up to 32)
- Recording rate: max. 1000 MPixel/s*
- Image resolution up to 1280x1024 Pixel (with IP-HD license up to 20MPixel per IP-video channel)

Recording:

- Compression procedure: MPEG-4, JPEG, M-JPEG, H.264, depending on camera
- Recording modes: continuous, event-activated, time-activated, SDK
- Ring storage: dynamic or static storage segmentation up to 16 harddrives, NAS/SAN
- Pre-alarm storage: individually adjustable for each camera from 5 – 900 seconds
- Recording playback: 1-4 channel playback, simultaneous, time-synchronized, variable playing speeds

Interfaces:

- Monitor outputs: 1x VGA, extendable with max. 2 Dual Head graphics card up to 4x VGA/DVI
- USB-Ports: 6xUSB2.0
- PS2-Ports: mouse & keyboard

Integrated software features:

- Live view: per Multiscreen with 1,2,4,9,10,12,16,32-times view with Hot Spot Monitor function, 8 Layouts free configurable, integrated instant playback directly in Live view
- PTZ control: serial and via network, control via popup menu, keyboard and/or triaxial joystick
- Alarm inputs/outputs: IO support of IP-cameras and/or via EX-IO Server (optional) with up to 96 inputs and outputs
- Motion detection: Matrix with 2304 individual fields, selectivity of fields unlimited

*Megapixels/second represents a value for image processing speed. The values stated refer to the processing and encoding of image data in or of M-JPEG Codecs. Other values apply to the processing of other Codecs such as MPEG-4, H.264, transcoding of streams, recorder live display and remote monitoring. Calculation tables are available for dimensioning network-based video surveillance. Please contact our support personnel for exact planning.

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- IP-camera lost detection: message optical, acoustical & per E-Mail
- Alarm message dispatch : via Email, SMS, ICQ, with/without alarm image, Windows News Service, external programs
- Text imprint/overlay: time, date, free text: 50 characters, freely positionable fields, font size & type, text and background colors variable, 10 additional fields in DataLog operation
- Recording: DirectStream mode, time-controlled, permanent, alarm controlled, contact controlled. Pre-alarm- and postalarm recording, for each camera adjustable
- Weekly timer: Adjustable per camera, continuous, motion detection, alarm contact, out, individual holidays programmable
- Ring storage: dynamic or static operating mode, for each camera individually configurable
- Playback: per MULTIEYE® MultiPlayer and/or per MULTIEYE® NetworkPlayer with 1,2 3 and 4-times playback, integrated search functions, variable playback speed, Megapixel zoom function, bandwidth optimization
- Search criteria: Date, time, motion detection, MotionTrack, MotionSearch (image area search), motion histogram, text (with DataLog)
- Resolution: depending on camera resolution, up to 20MPixel/channel
- Video export: AVI-format, single videos, proceedings with or without player
- Single image export: BMP or JPEG with selectable area and image adjustment
- Authentication: digital certification through invisible watermark in exported image
- Video remote polling: cameras with the LiveViewer, adjustable popup and acoustic alarm, playback via the NetworkPlayer, monitoring and remote maintenance via MULTIEYE® RemoteControl (MRC), web polling of live cameras and recording (integrated web & video servers), VideoCenter II optional
- Password protection: Multilevel password protection, freely definable user groups with individual rights, true “four-eye principle”
- Protection function: protection from unauthorized access; deactivation of the Windows GUI through MULTIEYE® Shell
- Functional security: Video board Watchdog, crash recovery, auto-record, video outage recognition, recorder status reports, (drive failure, S.M.A.R.T.)
- System restorer: recovery of the MULTIEYE® system configuration with camera Snapshot storage.
- Logbook files: for event documentation
- Menu languages: D, DK, E, GB, F, H, I, NL, P, RO, S, SK, TR, are updated continiously
- Software update: per LiveUpdater via the Internet, CD or as ZIP-file

Max. measurements:

B x H x T (in mm):	430 x 176 x 662
Weight:	ca. 39 kg

Article number: NG0508 MULTIEYE®-NVR MX

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Item code	Description
NG0508	8/32 Channel Network-Videorecorder, Type MX NVR NG, with 8 activated IP-Video inputs. Expandable up to 32 IP video channels by IP-1/IP-4, image data processing up to 1000 Megapixel/s, depending on amount of harddrives, network camera codec and compression factor. Max. 16TB storage possible, housing 19“, 5 U. Incl. IP-HD module, Shell and NetworkPlayer serverlicence for 1 User. Price without HDD for Videodata. (OS and MULTIEYE® Software on internal HDD)

HARDWARE ENHANCEMENTS

Item code	Description
NG1499	REC DVI/VGA-4, 4-channel monitor exit. Only available with initial delivery. Not compatible with „BGV certified“ recorders.
NG1500	REC DVI/VGA-2, 2 channel monitor exit, 2x DVI or VGA via adapter. Only available with initial delivery. Not compatible with „BGV certified“ recorders.
NG1600	REC RAID System, Raid 1 for Systemharddisk. Only available with initial delivery.
NG1602	REC RAID 8TB MX NG Serie. Only available with initial delivery.
NG1603	REC RAID 10TB MX NG Serie. Only available with initial delivery.
NG1604	REC RAID 12TB MX NG Serie. Only available with initial delivery.
NG1605	REC RAID 16TB MX NG Serie. Only available with initial delivery.
NG1606	REC RAID 4TB für MX NG Serie. Only available with initial delivery
810701	EX-IO Server 6066, integrated Ethernet port, the 6066 has 6 opto-decoupled, digital inputs and 6 relay outputs for 250 VAC @ 5A, and 30 VDC @ 5A. The 6066 will be delivered with activation key for usage with MULTIEYE®-HYBRID DVR kits, NET software and recorders.
810501	Protocol Converter Box Type NPC for MULTIEYE® software and recorder for cash register- and transfer data integration of more than 50 different cash register systems (POS), ATM‘s and accesscontrolsystems as e.g. HUTH, Scheidt+Bachmann, IBM/Diebold, WincorNixdorf, NCR. data input seriell (RS 232) or Ethernet RJ45 (protocol addicted). A DataLog licence (article no:810173) is included.
810620	3- Axis USB-Joystick, 12 switching functions, 2 of them on top of joystick knob, spring return to centre position, ergonomic desktop modell, nonwearing hall technologie.Use the 12 buttons on housing and joystick to program comprehensive switching functions in MULTIEYE®.

SOFTWARE ENHANCEMENTS

Item code	Description
NG1001	REC IP-4, license key for activation of 4 additional IP video channels, for all NVR, Business and Enterprise recorders.
NG1003	REC Network Player, Software and Server license for MotionTracking, MotionSearch, playback, backup and storage of video sequences and still images over network, 1-4 channel playback, integrated cache. Can be used as single player for playback of copied videos on media, server license for 1 additional user. Note: with all NVR, Business and Enterprise recorders 1 network player is already included.

NG1004	REC IP-1, activation licence for enabling an additional IP video input, suited for all recorders (enhancement per one channel only possible through software upgrade to version 2.2.0.0 respectively from version 2.2.0.0 on)
NG2100	**VideoCenter II Version 2.2. Monitoring Station 2 x DVI output** consisting of a 19“ PC with dual DVI output. The installed VideoCenter II enables camera and recorder management of up to 32 connected MULTIEYE® recorders with up to 1.024 cameras. Display of up to 256 live cameras on up to 4 monitors. HotSpot function. Creation of individual Multiscreen Layouts, user-dependent storable. Site plans can be created individually with logical camera conjunction. Playback recordings with index indication, event protocols, control of alarm entry and exit. Up to 4 internet browser in Multiscreen integrable. PTZ control per pop up or joystick or direct control, support of Immervision 360° lenses, enhanced user management. Delivery content: Client license with USB Dongle. Note: For enhanced playback functions the network Player must be activated on the MULTIEYE® Recorder. By usage of VCII upgrade in MULTIEYE® systems to version 2.1.1.3 the recorders need to be upgraded.
810172	DataLog module, universal data recording via RS-232/TCP/IP. Visualizing of data/transactions in live image and/or in playback of recorded videos incl. DataLog database enabling full-text search. Signal-word alarms and extensive filter functions are configurable. Typical data sources are cash registers (POS), ATMs, access controls, scanners, GPS antennas/receivers, NPR systems etc. Included in delivery are standard profiles for i.e. PC Cash, Barcoreader, GPS receiver, a DataLog activation key for one data source as well as 60 minutes Premium support time. The realization of customer or device specific DataLog profiles is charged according to time consumption (Item code 910000 in Services).
810173	DataLog license, for an additional data source.
810190	AutoBackup module, for automatic copying and/or archiving of videos, time- or alarm-triggered, on internal/external data volumes or drives. network version.
810180	DeskTopLogger Module. For encoding, transmission, remote monitoring and remote recording of desktops via MULTIEYE®-HYBRID/NET. Scope of delivery: DTL Encoder Software, activation key for 1 desktop stream, user manual. Attention: needs IP-4 channels.
810170	ANPR Licence plate recognition module, 2 Channel, Software module for MULTIEYE®-NET or MULTIEYE® recorder for detection and evaluation of license plates. Incl. search funtion and notification. Switching of relay contacts in combination with optional available EX-IO board or EX- IO server. Incl. DataLog module and DataLog-license.

SERVICE & SUPPORT

Item code	Description
NG2001	NG warranty extension to 3 years. Only available with initial delivery.
NG2002	NG on-site-service for NVR/Business/Enterprise Recorder. Only available with initial delivery.